

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL2004/000502

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A01N3/02 A01N25/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CAB Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 200209 Derwent Publications Ltd., London, GB; Class A23, AN 2002-064483 XP002305175 & JP 2001 278937 A (MITSUI CHEM INC) 10 October 2001 (2001-10-10)	1-4, 10, 15, 18
Y	abstract	17
X	WO 99/55154 A (STAR TINUS WILLEM HENDRIK ; VONK HANS (NL)) 4 November 1999 (1999-11-04) page 5, line 14 - line 27 page 4, line 12 - line 17 page 2, line 9 - page 3, line 33 page 1, line 1 - line 6	1, 3, 7-10, 12, 15-18
Y		1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

12 November 2004

Date of mailing of the international search report

24/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Lamers, W.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE WPI  Section Ch, Week 198925  Derwent Publications Ltd., London, GB;  Class A97, AN 1989-182747  XP002305176  &amp; JP 01 121201 A (DAICEL CHEM IND LTD)  12 May 1989 (1989-05-12)  abstract</p>	1,2,5,6
Y	<p>DATABASE WPI  Section Ch, Week 199717  Derwent Publications Ltd., London, GB;  Class G04, AN 1997-186861  XP002267063  &amp; JP 09 047154 A (FUSHIMI SEISAKUSHO KK)  18 February 1997 (1997-02-18)  abstract</p>	1,2,5,6
Y	<p>US 5 580 975 A (TADA SUGURU)  3 December 1996 (1996-12-03)  column 1, line 47 - line 54  column 3, line 64 - column 4, line 6  column 4, line 40 - line 51</p>	1-11, 13-18
Y	<p>US 5 315 782 A (BARCLAY WILLIAM M ET AL)  31 May 1994 (1994-05-31)  column 3, line 38 - line 41  column 2, line 22 - line 66</p>	17
Y	<p>GB 1 576 999 A (CENTRE NAT EXPLOIT OCEANS)  15 October 1980 (1980-10-15)  page 2, line 3 - line 29  page 2, line 65 - page 3, line 11</p>	7,12
X	<p>US 4 985 061 A (HUGHES JOHN)  15 January 1991 (1991-01-15)  column 10, line 23 - line 42  column 3, line 8 - column 4, line 2</p>	1-3,10, 15,16,18
X	<p>DATABASE WPI  Section PQ, Week 198607  Derwent Publications Ltd., London, GB;  Class P27, AN 1986-046737  XP002267064  &amp; SE 8 403 211 A (NILSSON-ENGEROTH B)  15 December 1985 (1985-12-15)  abstract  -&amp; SE 8 403 211 A  15 December 1985 (1985-12-15)  page 3, paragraphs 5,6  page 4, paragraph 3</p>	1,3-7, 10-12, 15,18

-/--

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 198926 Derwent Publications Ltd., London, GB; Class A11, AN 1989-190487 XP002305177 &amp; JP 01 130726 A (DAICEL CHEM IND LTD) 23 May 1989 (1989-05-23) abstract</p>	1-6, 10, 11, 18
X	<p>DATABASE WPI Section Ch, Week 200367 Derwent Publications Ltd., London, GB; Class A97, AN 2003-705328 XP002305178 &amp; KR 2003 038 964 A (UNID CO LTD) 17 May 2003 (2003-05-17) abstract</p>	1-6, 10, 11, 18
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; F.ESPOSITO ET AL.: "Water sorption in cellulose based hydrogels" XP002305174 retrieved from STN-INTERNATIONAL Database accession no. 124:263718 abstract &amp; POLYMERIC MATERIALS SCIENCE ANDE AND ENGINEERING, vol. 74, 1996, pages 368-369,</p>	1, 3-6, 10, 11, 18
X	<p>EP 0 604 862 A (ELCHROM LTD) 6 July 1994 (1994-07-06) claims 1-15</p>	1, 3-6, 10, 18
X	<p>WO 96/15154 A (PROCTER &amp; GAMBLE ; FORNASARI GIANCARLO (IT); TORRI GIANGIACOMO (IT); C) 23 May 1996 (1996-05-23) the whole document</p>	1-6, 10, 11, 15, 16, 18
P, X	<p>WO 03/101196 A (TIMMERMANS JOHANNES WILHELMUS ;TNO (NL); MONTIJN ROY CHRISTIAAN (N) 11 December 2003 (2003-12-11) page 2, line 13 - page 3, line 2 page 3, line 19 - page 4, line 19 page 6, line 5 - line 9 page 6, line 29 - page 11, line 10</p>	1-18
A	<p>US 5 679 617 A (HANAFUSA MIHO ET AL) 21 October 1997 (1997-10-21) the whole document</p>	1-18

-/--

# INTERNATIONAL SEARCH REPORT

Inter-  
national Application No  
PC 1 / NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/15702 A (AGRES LTD ; JOHNSON VON WALTER (NZ); PEARSON JOAN FRANCES (NZ)) 28 February 2002 (2002-02-28) page 4, line 18 - page 5, line 11 page 7, line 15 - page 8, line 2 -----	1-18
A	DATABASE WPI Section Ch, Week 200281 Derwent Publications Ltd., London, GB; Class A11, AN 2002-743661 XP002267062 & JP 2002 138162 A (INOAC CORP KK) 14 May 2002 (2002-05-14) abstract -----	1-18
A	US 5 009 890 A (DIPIPPO ASCANIO G) 23 April 1991 (1991-04-23) column 2, line 12 - column 4, line 8 -----	1-18

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL2004/000502

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2001278937	A	10-10-2001	NONE		
WO 9955154	A	04-11-1999	NL	1008986 C2	26-10-1999
			AT	226788 T	15-11-2002
			AU	754343 B2	14-11-2002
			AU	3446099 A	16-11-1999
			CA	2328852 A1	04-11-1999
			DE	69903723 D1	05-12-2002
			DE	69903723 T2	31-07-2003
			EP	1073330 A1	07-02-2001
			JP	2003524584 T	19-08-2003
			WO	9955154 A1	04-11-1999
			NZ	507466 A	28-02-2003
			US	2003131528 A1	17-07-2003
JP 1121201	A	12-05-1989	JP	2009914 C	02-02-1996
			JP	7045361 B	17-05-1995
JP 9047154	A	18-02-1997	NONE		
US 5580975	A	03-12-1996	JP	2509083 B2	19-06-1996
			JP	7082101 A	28-03-1995
			NL	9401194 A	16-02-1995
US 5315782	A	31-05-1994	NONE		
GB 1576999	A	15-10-1980	FR	2384010 A1	13-10-1978
			AU	517059 B2	09-07-1981
			AU	3387878 A	13-09-1979
			BR	7801539 A	10-10-1978
			DK	112978 A	16-09-1978
			JP	53113836 A	04-10-1978
			NL	7802839 A	19-09-1978
			NO	780814 A	18-09-1978
			SE	7802890 A	16-09-1978
			US	4297137 A	27-10-1981
US 4985061	A	15-01-1991	US	4906276 A	06-03-1990
			US	4985062 A	15-01-1991
SE 8403211	A	15-12-1985	NONE		
JP 1130726	A	23-05-1989	JP	2043611 C	09-04-1996
			JP	7071627 B	02-08-1995
KR 2003038964	A	17-05-2003	NONE		
EP 0604862	A	06-07-1994	US	5371208 A	06-12-1994
			AT	184614 T	15-10-1999
			CA	2112450 A1	01-07-1994
			DE	69326422 D1	21-10-1999
			DE	69326422 T2	27-07-2000
			EP	0604862 A2	06-07-1994
			JP	3492405 B2	03-02-2004
			JP	6316592 A	15-11-1994
			US	5541255 A	30-07-1996
			US	5767196 A	16-06-1998

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL2004/000502

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9615154	A	23-05-1996	IT	T0940891 A1	10-05-1996
			AU	4281996 A	06-06-1996
			CA	2205026 A1	23-05-1996
			EP	0791015 A1	27-08-1997
			JP	10509753 T	22-09-1998
			WO	9615154 A1	23-05-1996
			US	5780616 A	14-07-1998
WO 03101196	A	11-12-2003	NL	1020716 C2	02-12-2003
			WO	03101196 A1	11-12-2003
US 5679617	A	21-10-1997	JP	8198702 A	06-08-1996
			NL	1002194 C2	26-01-1999
			NL	1002194 A1	31-07-1996
WO 0215702	A	28-02-2002	NZ	506484 A	31-01-2003
			AU	8456001 A	04-03-2002
			EP	1315423 A1	04-06-2003
			WO	0215702 A1	28-02-2002
			US	2004102328 A1	27-05-2004
JP 2002138162	A	14-05-2002	NONE		
US 5009890	A	23-04-1991	US	6033675 A	07-03-2000
			US	5529784 A	25-06-1996
			US	5384125 A	24-01-1995